

Fig. 1

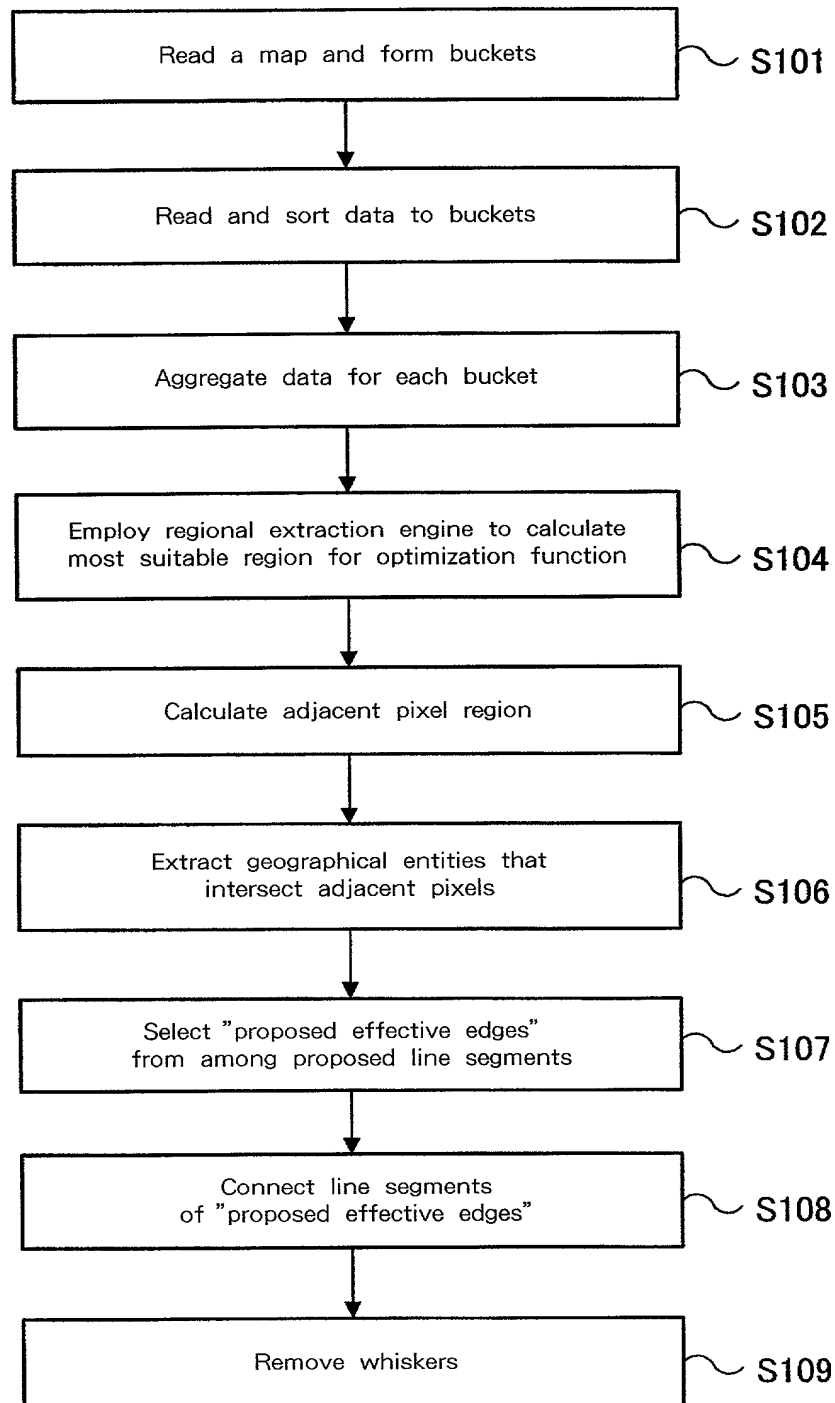


Fig. 2

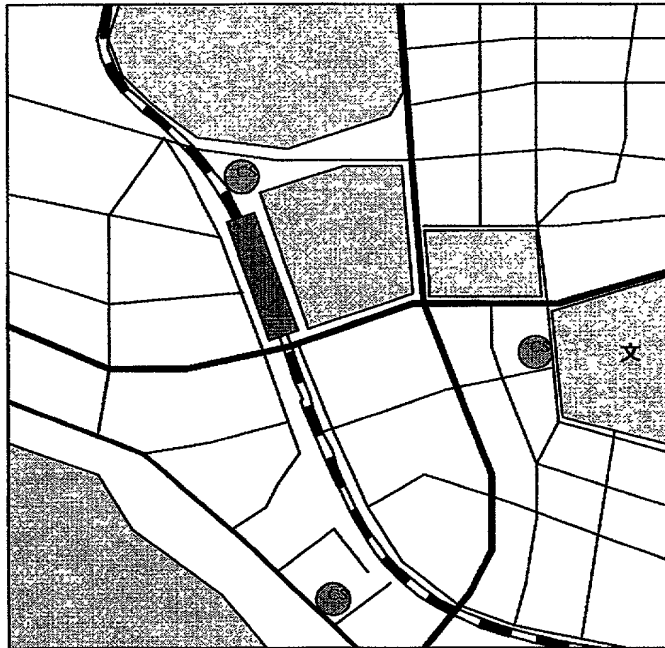
(a) Customer database for specific department store

Customer ID	Name	Address X , Y	Sales value	Annual income
101	ichiro	100 , 150	126,800	5,000,000
102	jiro	220 , 180	198,000	7,000,000
103	saburo	420 , 500	15,000	5,800,000
⋮	⋮	⋮	⋮	⋮

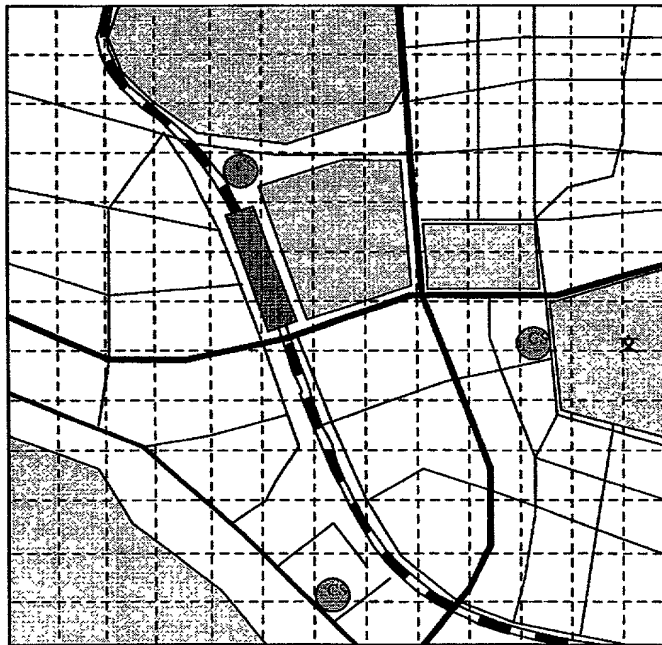
(b) Limitation, objective function for optimization of region

Limitation :	Objective function :
Maximum grid count	Sum of sales value
Minimum customer count	Average annual income

Fig. 3



(a) Map



(b) Map buckets

Fig. 4

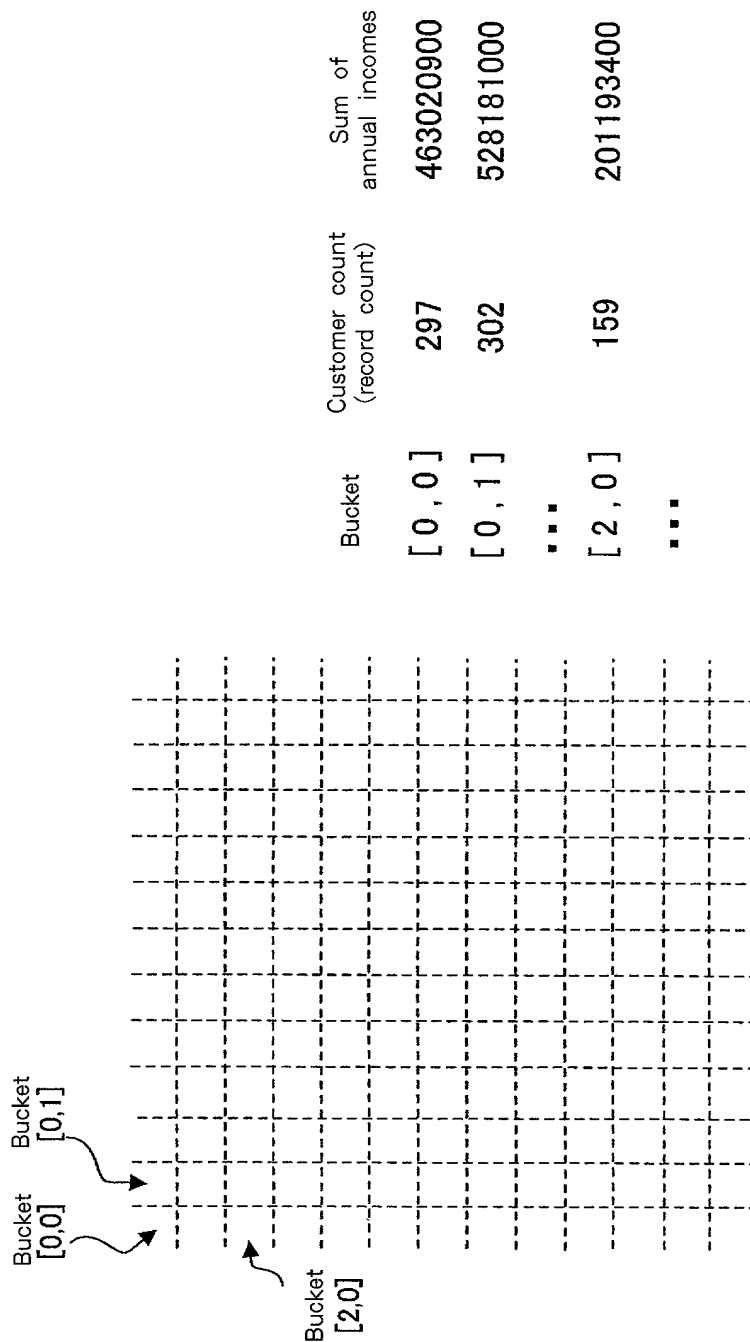


Fig. 5

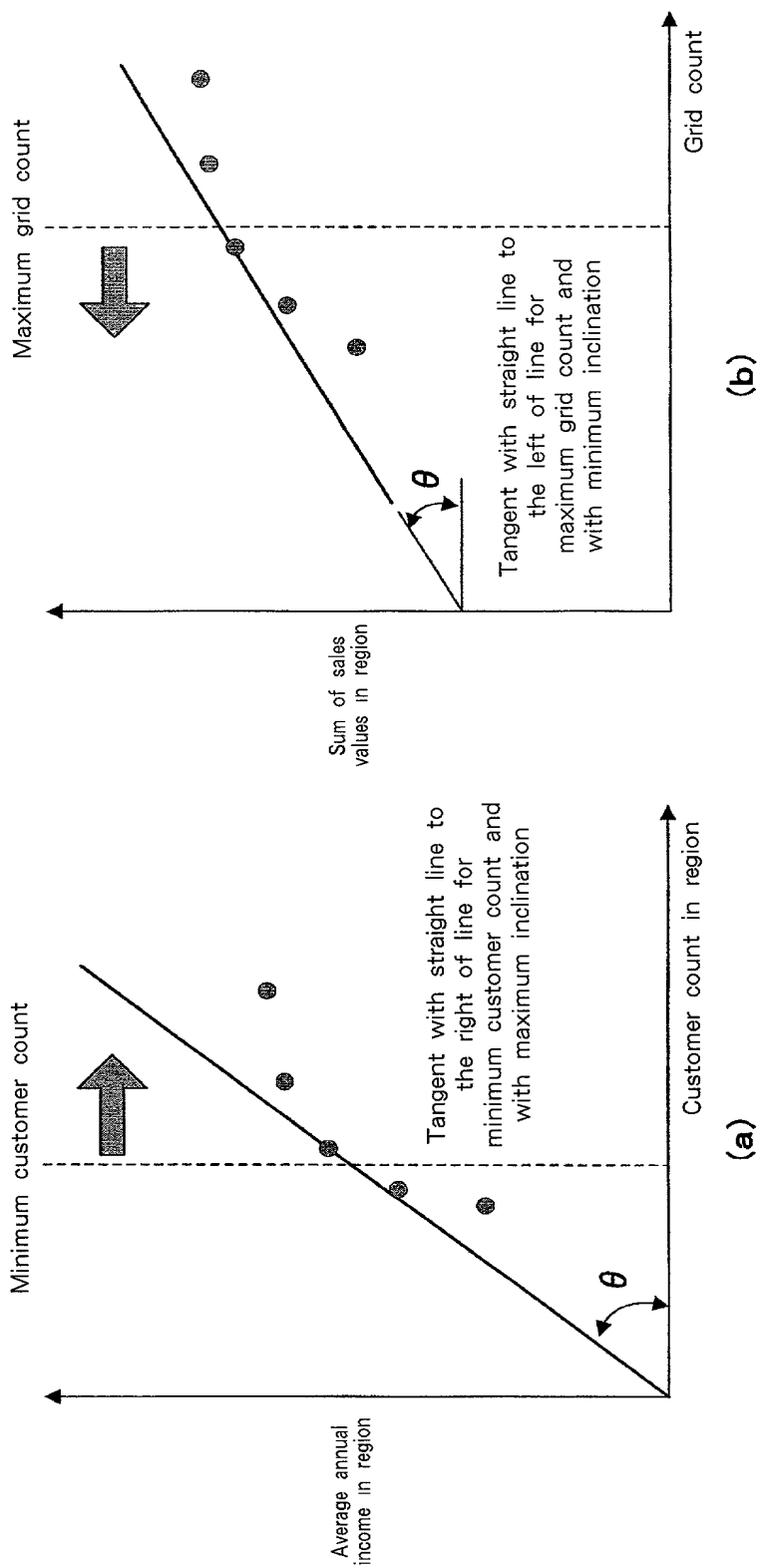


Fig. 6

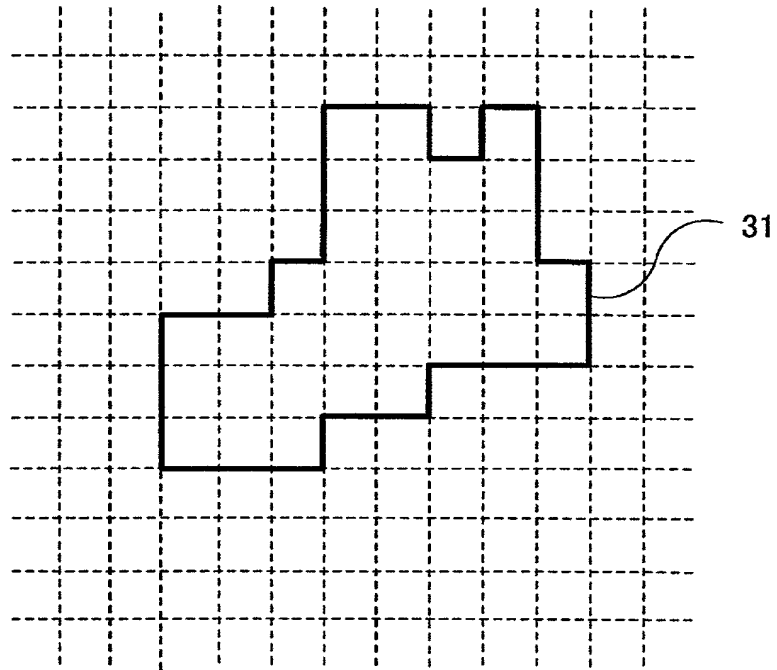


Fig. 7

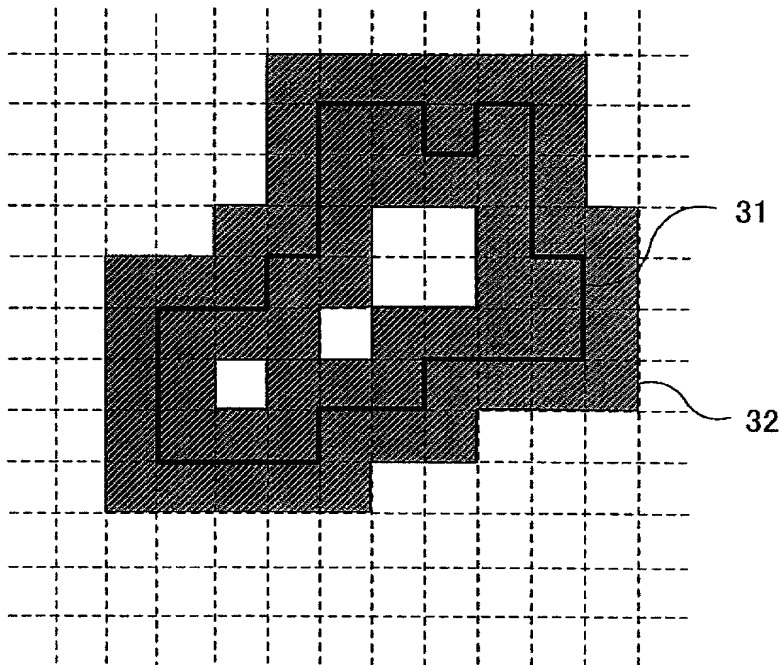


Fig. 8

FIG. 7

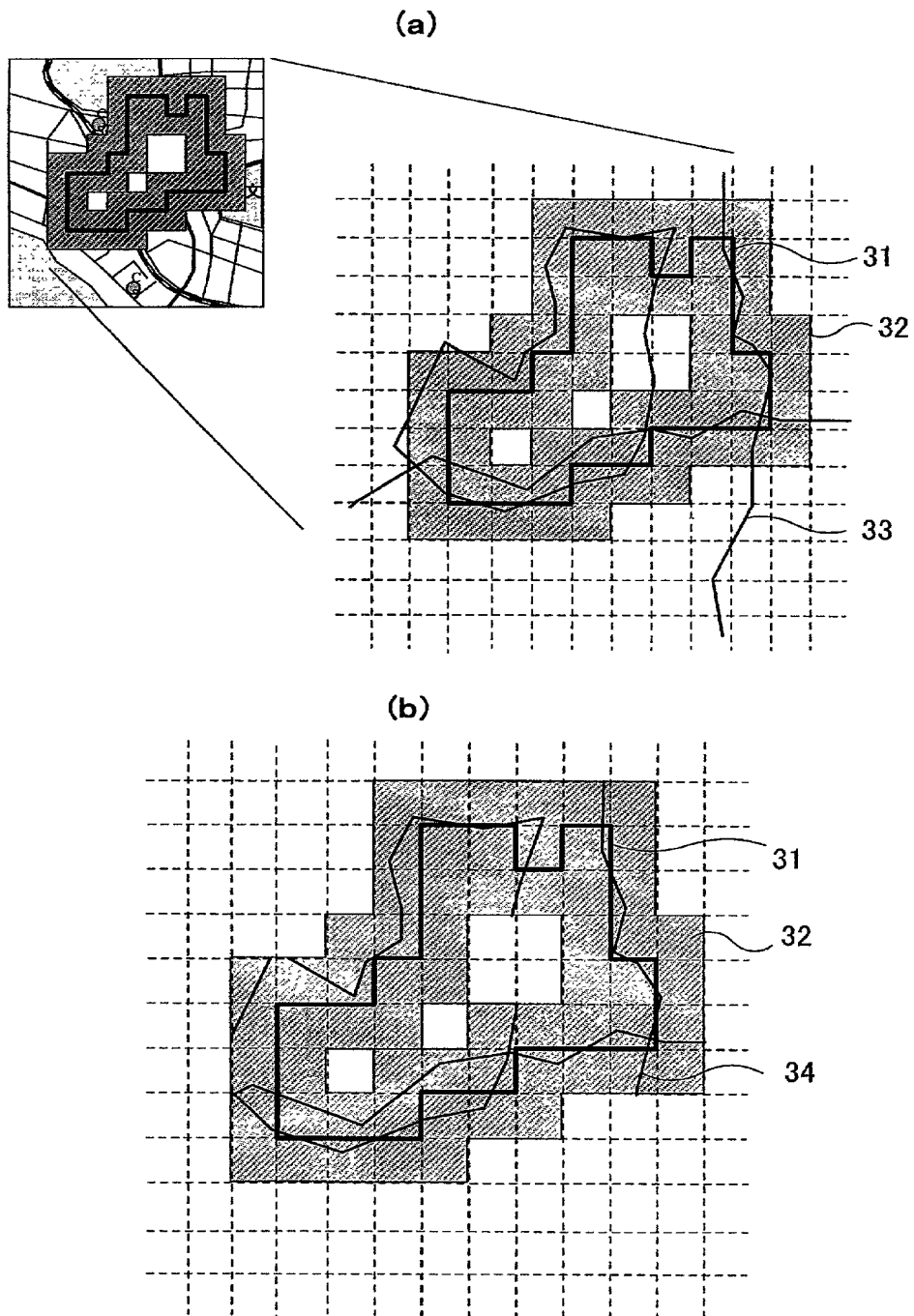


Fig. 9

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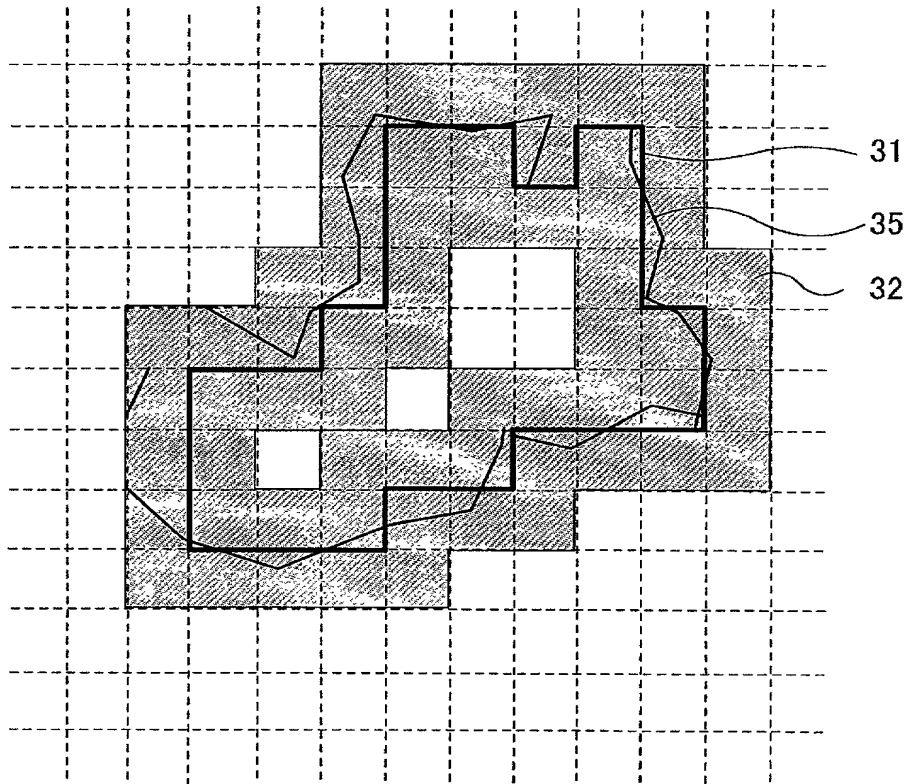


Fig. 10

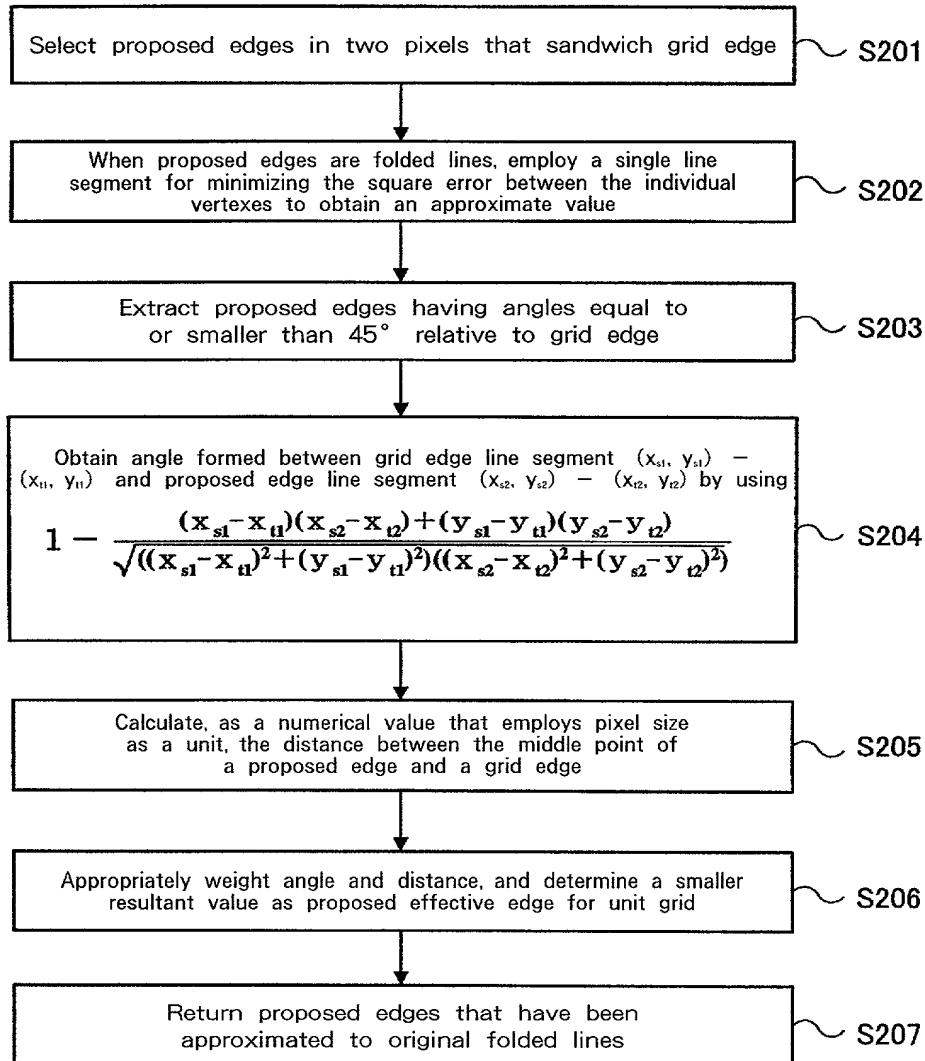


Fig. 11

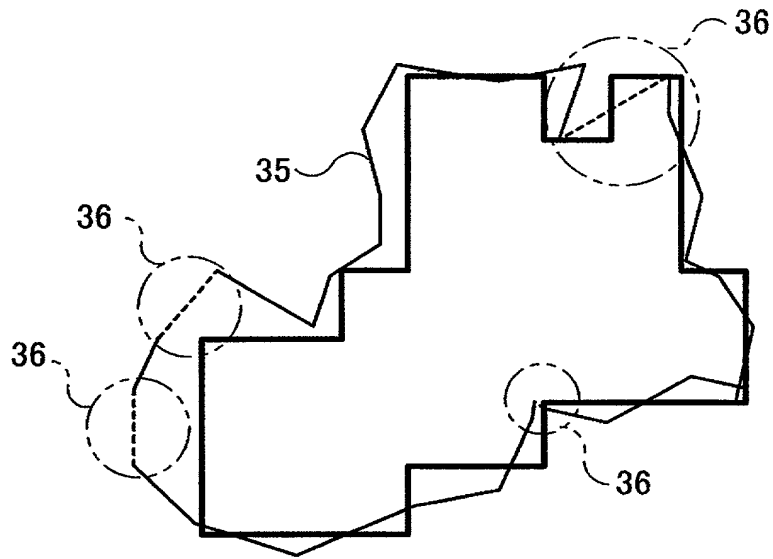


Fig. 12

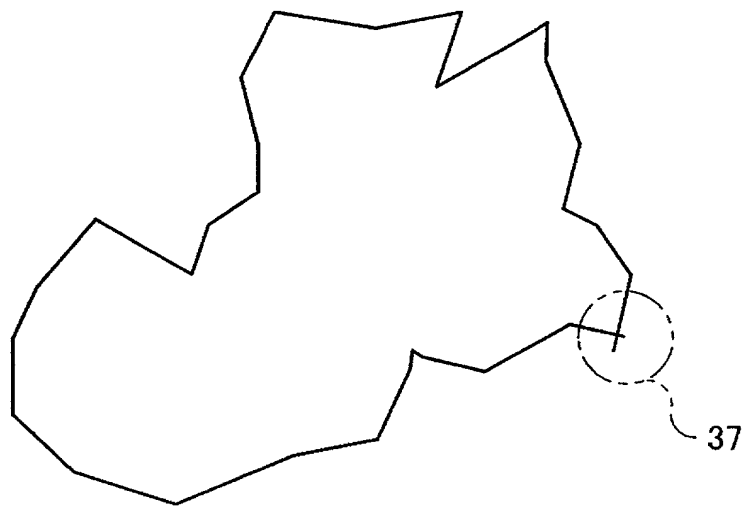


Fig. 13

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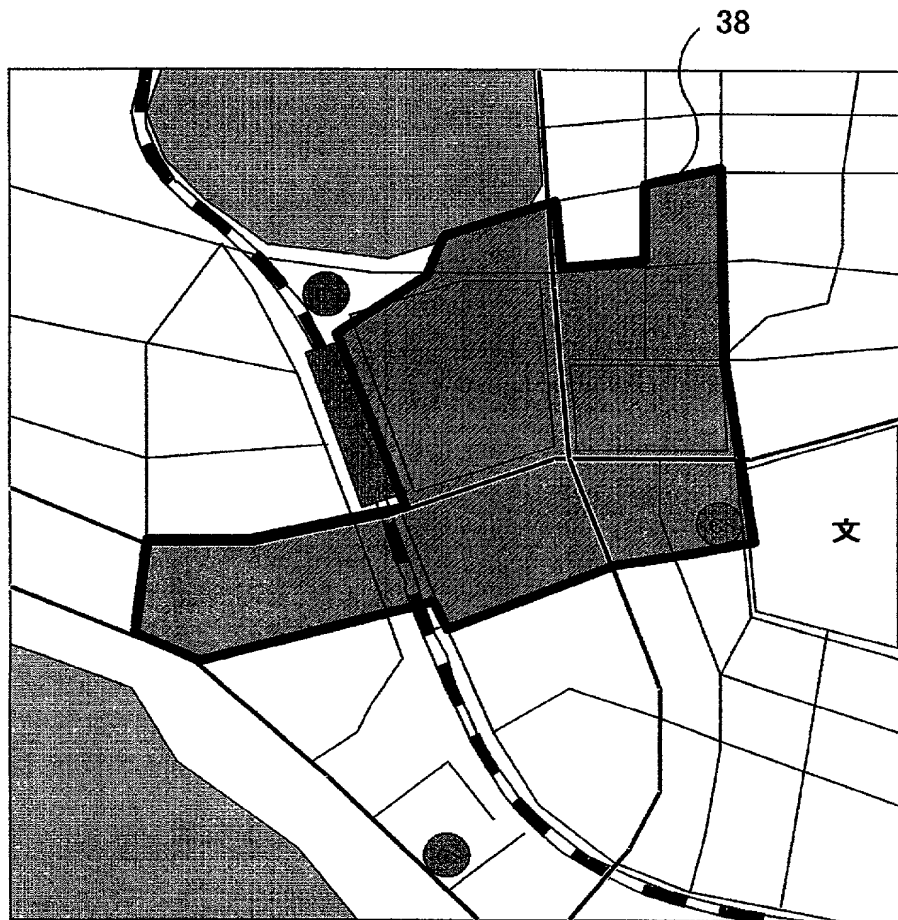


Fig. 14